

BEST AVAILABLE COPY

714 427 7799 9/28/2006 4:22 PM PAGE 4/017 Fax Server
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Patent
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IN THE CLAIMS:

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CENTRAL FAX CENTER

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1.-3. (Cancelled)

4. (Previously Presented) The editing server of claim 30, further comprising:

an AV stream storing unit operable to store at least one AV stream,

5 wherein when the received editing information specifies the addition as the editing operation, the AV stream obtaining unit reads the at least one specified AV stream from the AV stream storing unit, and

wherein the editing unit performs the editing operation by adding a special effect to each specified frame contained in the at least one read AV stream.

10 5. (Previously Presented) The editing server of claim 30,

wherein when the received editing information specifies the addition as the editing operation, the AV stream obtaining unit receives the at least one specified AV stream from the client who sends the editing information, and

15 wherein the editing unit performs the editing operation by adding a special effect to each specified frame contained in the at least one received AV stream.

6. (Previously Presented) An audio-video (AV) editing system which comprises the editing server of claim 30 and a plurality of clients that are connected via a network to the editing server,

wherein the plurality of clients each include:

20 editing information generating unit operable to generate editing information, which specifies at least one AV stream, at least one frame contained in the at least one AV

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stream, and an editing operation which contains at least one of (a) a combining of each specified frame and (b) an addition of a special effect to each specified frame;

an editing information transmitting unit operable to transmit the generated editing information to the editing server;

5 a stream receiving unit operable to receive an AV stream, for which the editing operation has been performed, from the editing server; and

a reproducing unit operable to reproduce the received AV stream.

7-25. (Cancelled)

26. (Previously Presented) A system to edit an audio/video (AV) stream, comprising:
10 a plurality of editing clients in communication with a network; and
an edit server in communication with the network, wherein the edit server is in communication with each of the editing clients via the network, and wherein the edit server is configured to:

store a first AV stream received from a first editing client,
15 store a second AV stream received from a second editing client,
receive instructions from the first editing client for editing the first AV stream,
receive instructions from the second editing client for editing the second AV stream,
edit the first AV stream according to the instructions received from the first
20 editing client,
edit the second AV stream according to the instructions received from the second editing client

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combine the edited first AV stream with the edited second AV stream to form a combined AV stream, and
transmit the combined AV stream to the first editing client and the second editing client.

5 27. (Previously Presented) An apparatus configured to edit an audio/video (AV) stream, comprising:

an edit server in communication with a first editing client and a second editing client via a network, wherein the edit server is configured to:

store a first AV stream received from the first editing client,
10 store a second AV stream received from the second editing client,
receive instructions from the first editing client for editing the first AV stream,
receive instructions from the second editing client for editing the second AV stream,
edit the first AV stream according to the instructions received from the first
15 editing client,
edit the second AV stream according to the instructions received from the second editing client
combine the edited first AV stream with the edited second AV stream to form a combined AV stream, and
20 transmit the combined AV stream to the first editing client and the second editing client.

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28. (Previously Presented) A computer-implemented method to edit an audio/video (AV) stream, comprising:

storing, in an edit server, a first AV stream received from a first editing client in communication with the edit server via a network;

5 storing, in the edit server, a second AV stream received from a second editing client in communication with the edit server via the network;

receiving, by the edit server, instructions from the first editing client for editing the first AV stream;

receiving, by the edit server, instructions from the second editing client for editing
10 the second AV stream;

editing, by the edit server, the first AV stream according to the instructions received from the first editing client,

editing, by the edit server, the second AV stream according to the instructions received from the second editing client

15 combining, by the edit server, the edited first AV stream with the edited second AV stream to form a combined AV stream, and

transmitting, by the edit server, the combined AV stream to the first editing client and the second editing client.

29. (Previously Presented) A computer-readable medium which stores instructions
20 that when executed by a processor cause the processor to perform a method comprising the steps of:

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storing, in an edit server, a first AV stream received from a first editing client in communication with the edit server via a network;

storing, in the edit server, a second AV stream received from a second editing client in communication with the edit server via the network;

5 receiving, by the edit server, instructions from the first editing client for editing the first AV stream;

receiving, by the edit server, instructions from the second editing client for editing the second AV stream;

editing, by the edit server, the first AV stream according to the instructions
10 received from the first editing client,

editing, by the edit server, the second AV stream according to the instructions received from the second editing client

combining, by the edit server, the edited first AV stream with the edited second AV stream to form a combined AV stream, and

15 transmitting, by the edit server, the combined AV stream to the first editing client and the second editing client.

30. (Previously Presented) An editing server included in an audio/video (AV) editing system, which includes a plurality of clients that are connected via a network to the editing server, the editing server comprising:

20 an editing information receiving unit operable to receive editing information from a client out of the plurality of clients via a network, wherein the editing information specifies at least one AV stream, at least one frame contained in the at least one AV stream, and an editing

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operation which contains at least one of (1) a combining of each specified frame, and (2) an addition of a special effect to each specified frame;

an AV stream obtaining unit operable to obtain each specified AV stream;

an editing unit operable to perform the editing operation for the obtained AV
5 streams in accordance with the received editing information;

a transmitting unit operable to transmit each AV stream, for which the editing operation has been performed, to the client via a network; and

an AV stream storing unit operable to store at least one AV stream,

wherein when the received editing information specifies at least two AV streams,
10 at least two video frames in the at least two AV streams, and the combining as the editing operation, the AV stream obtaining unit reads the at least two specified AV streams from the AV stream storing unit,

wherein the editing unit performs the editing operation by combining the at least two specified video frames contained in the at least two read AV streams to generate a combined
15 video frame,

wherein the editing unit includes:

a size reducing subunit operable to reduce a resolution of the combined video frame, and

wherein the transmitting unit transmits the combined video frame, the resolution
20 of which is reduced, to the client via a network.

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31. (Previously Presented) An editing method used by an editing server of an audio/video (AV) editing system, which includes a plurality of clients that are connected via a network to the editing server, the editing method comprising:

an editing information receiving step for receiving editing information from a
5 client out of the plurality of clients via a network, wherein the editing information specifies at least one AV stream, at least one frame contained in the at least one AV stream, and an editing operation which contains at least one of (1) a combining of each specified frame, and (2) an addition of a special effect to each specified frame;

an AV stream obtaining step for obtaining each specified AV stream;

10 an editing step for performing the editing operation for the obtained AV streams in accordance with the received editing information;

a transmitting step for transmitting each AV stream, for which the editing operation has been performed, to the client via a network; and

an AV stream storing step for storing at least one AV stream,

15 wherein when the received editing information specifies at least two AV streams, at least two video frames in the at least two AV streams, and the combining as the editing operation, the AV stream obtaining step reads the at least two specified AV streams stored in the AV stream storing step,

20 wherein the editing step performs the editing operation by combining the at least two specified video frames contained in the at least two read AV streams to generate a combined video frame,

wherein the editing step includes:

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a size reducing sub-step for reducing a resolution of the combined video frame,
and

wherein the transmitting step transmits the combined video frame, the resolution
of which is reduced, to the client via a network.

5 32. (Previously Presented) A program recording medium which is readable by a
server computer of an audio/video (AV) editing system including a plurality of client computers
that are connected via a network to the server computer, a computer program embodied on the
program recording medium has the server computer conduct the steps of:

an editing information receiving step for receiving editing information from a
10 client out of the plurality of clients via a network, wherein the editing information specifies at
least one AV stream, at least one frame contained in the at least one AV stream, and an editing
operation which contains at least one of (1) a combining of each specified frame, and (2) an
addition of a special effect to each specified frame;

an AV stream obtaining step for obtaining each specified AV stream;

15 an editing step for performing the editing operation for the obtained AV streams
in accordance with the received editing information;

a transmitting step for transmitting each AV stream, for which the editing
operation has been performed, to the client via a network; and

an AV stream storing step for storing at least one AV stream,

20 wherein when the received editing information specifies at least two AV streams,
at least two video frames in the at least two AV streams, and the combining as the editing

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operation, the AV stream obtaining step reads the at least two specified AV streams stored in the AV stream storing step,

wherein the editing step performs the editing operation by combining the at least two specified video frames contained in the at least two read AV streams to generate a combined

5 video frame,

wherein the editing step includes:

a size reducing sub-step for reducing a resolution of the combined video frame,

and

wherein the transmitting step transmits the combined video frame, the resolution

10 of which is reduced, to the client via a network.

33. (New) The system to edit an audio/video (AV) stream of claim 26 further comprising:

a storage unit for storing AV data in a pre-determined format;

a video effect producing unit for performing video editing by changing colors,

15 adding mosaic tiling, combining video effects and generating a second picture within a picture;

a video unit for recording edited AV streams on a recording medium;

an AV data management unit for controlling read and write operations to the

storage unit;

a plurality of decoders for decoding data stored on the storage unit; and

20 a plurality of encoders for encoding edited AV streams.

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